

FIG. 1A

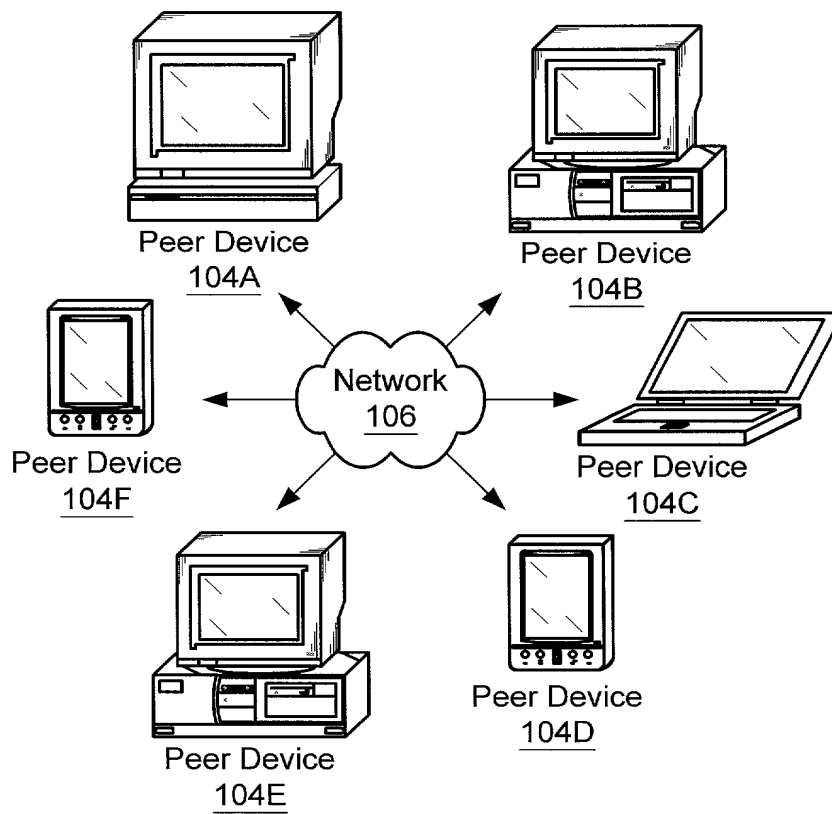


FIG. 1B

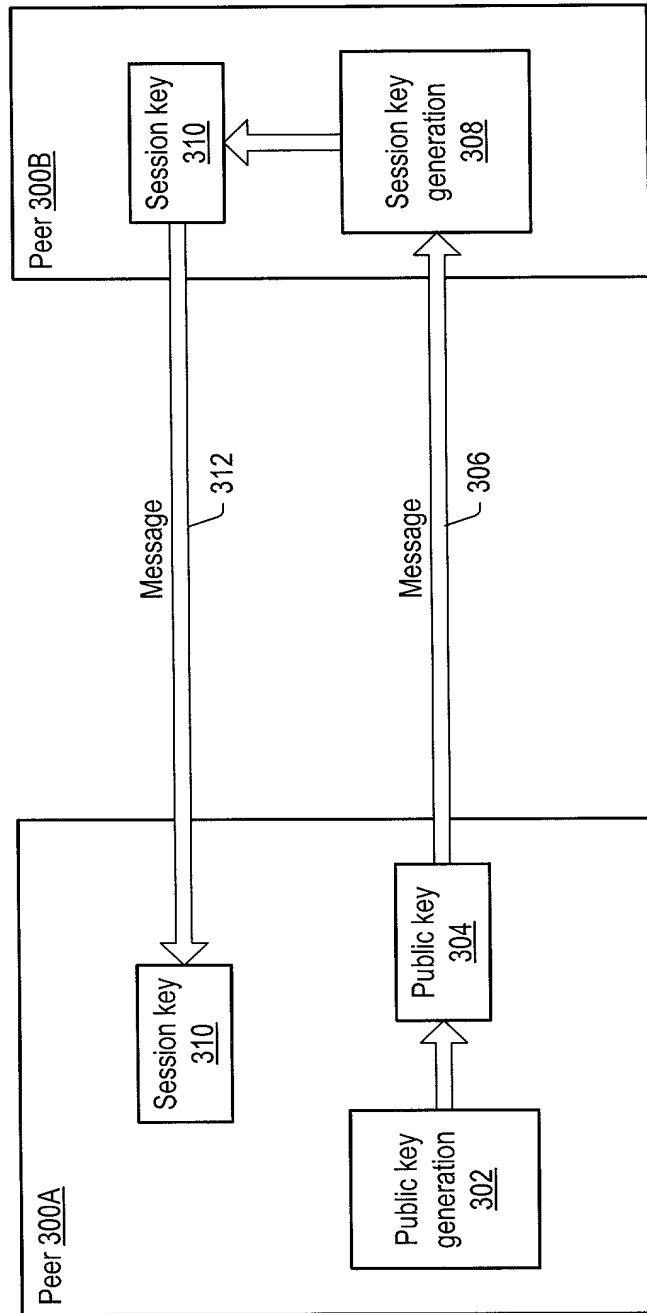


FIG. 2

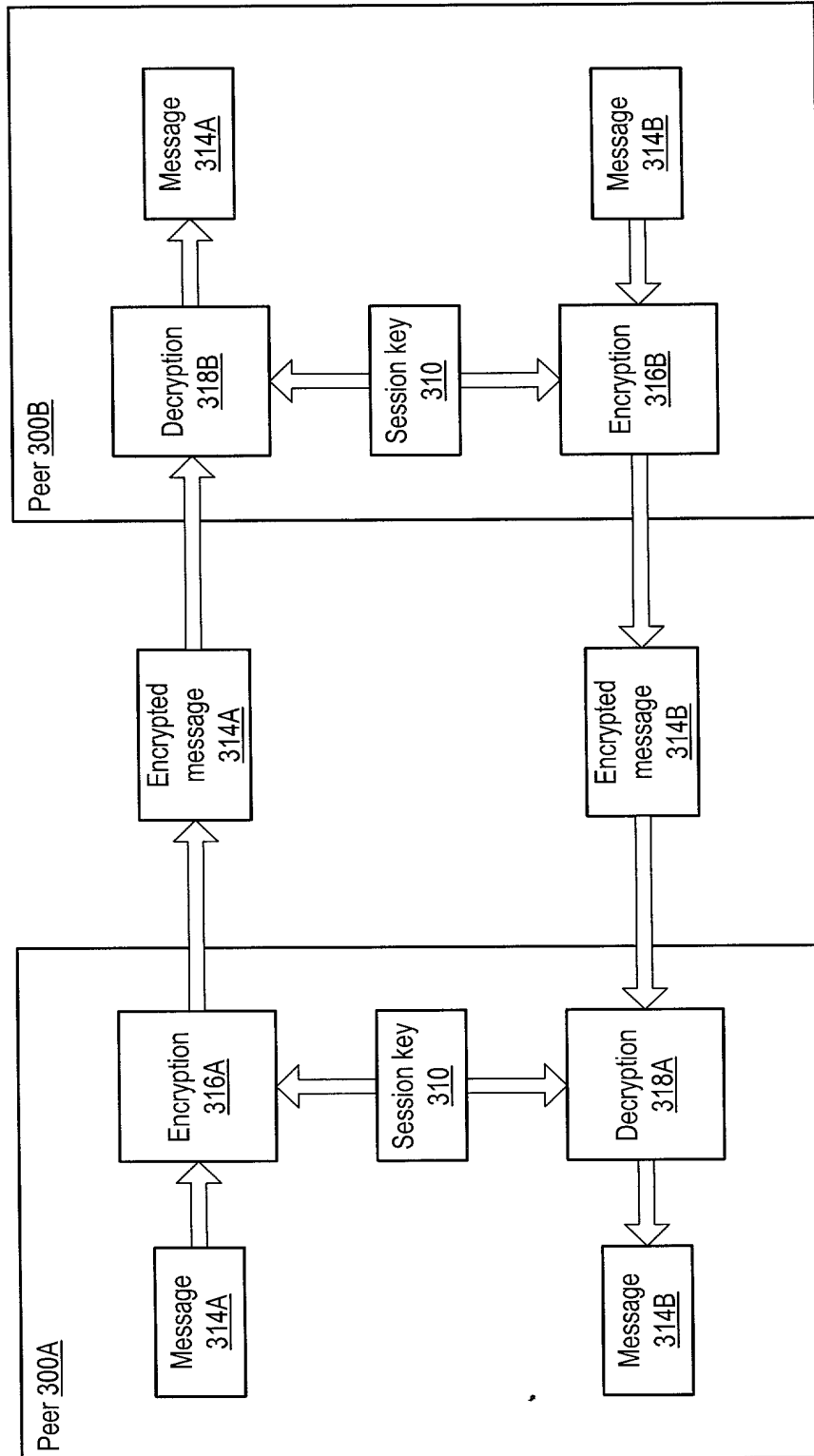


FIG. 3

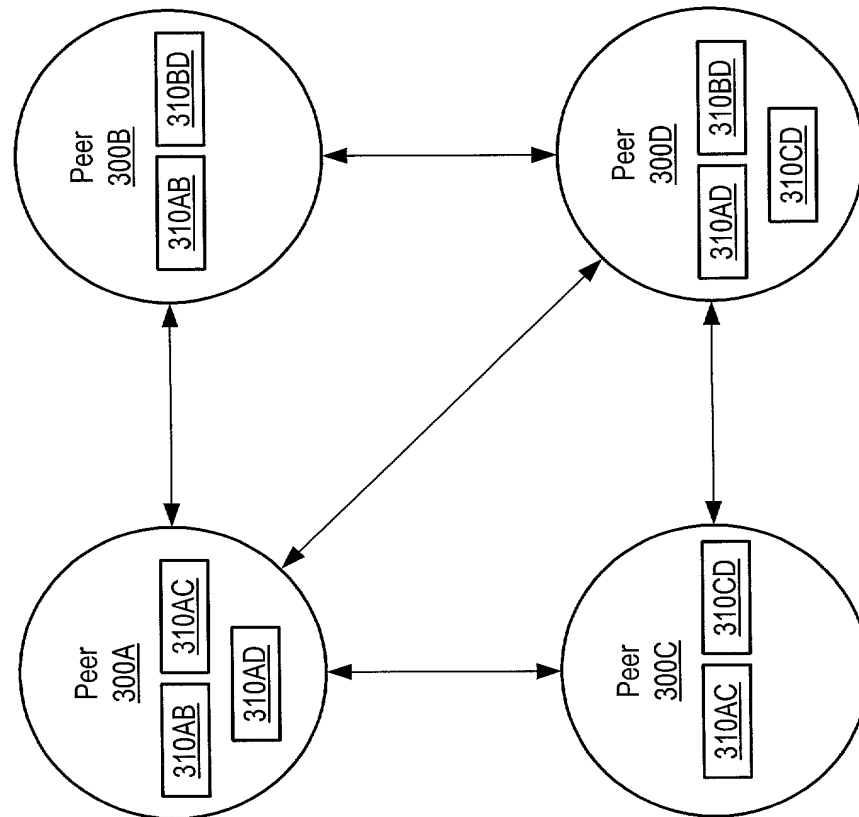


FIG. 4

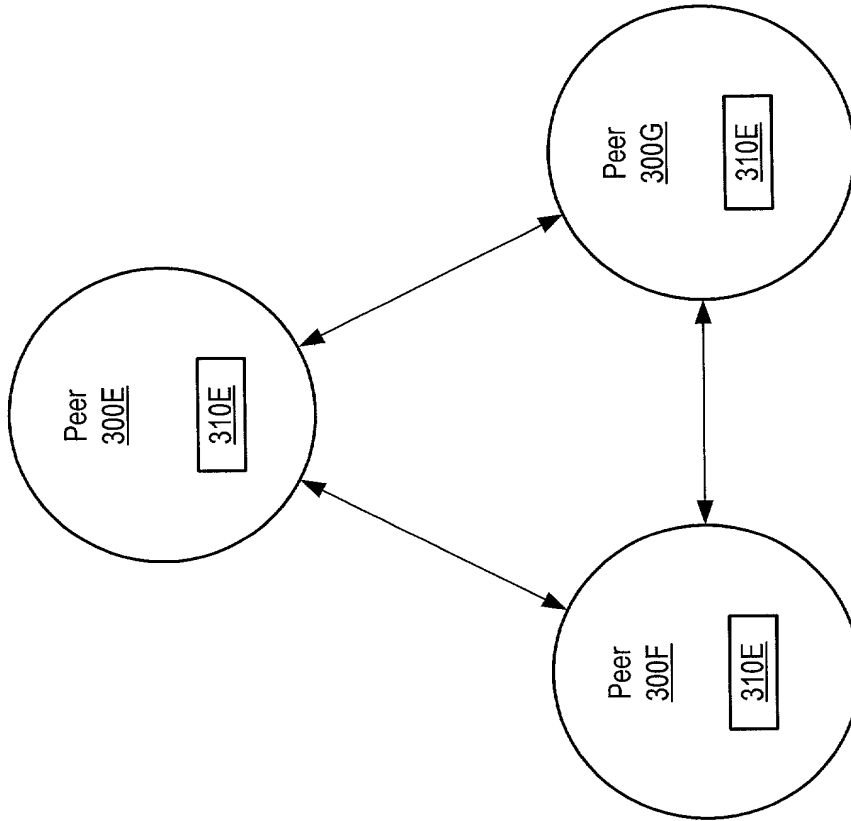


FIG. 5

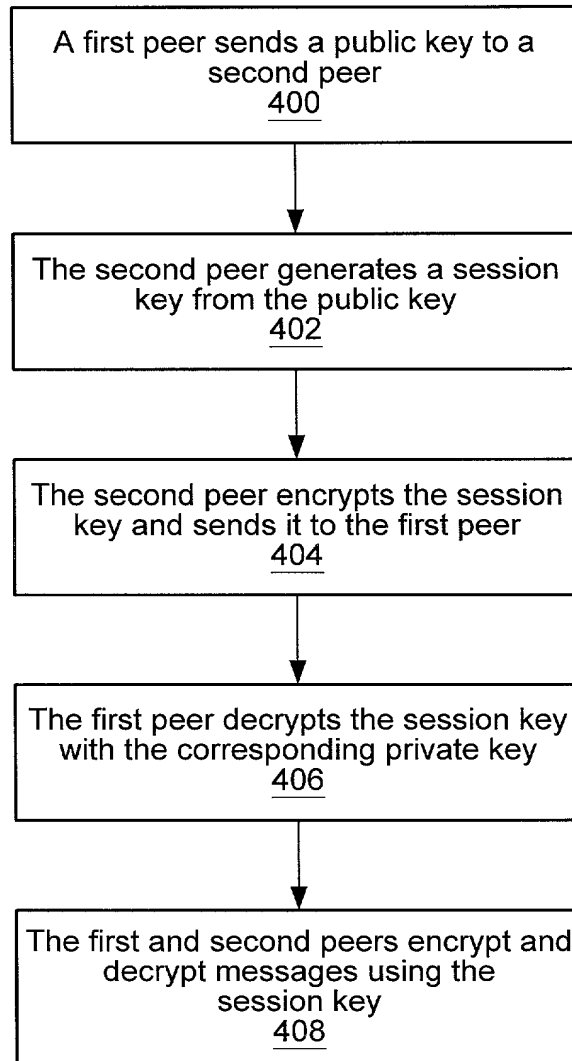


FIG. 6

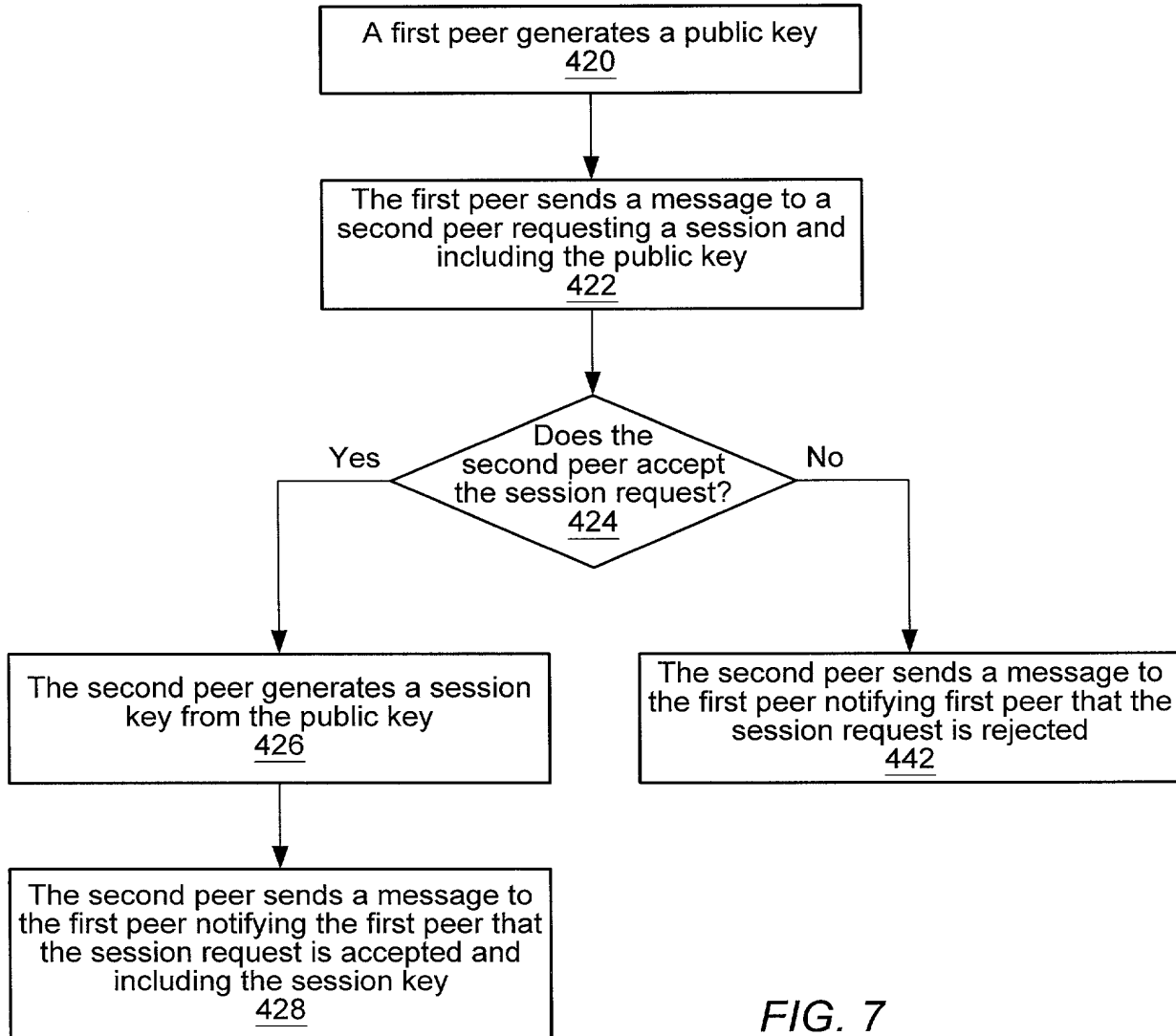


FIG. 7

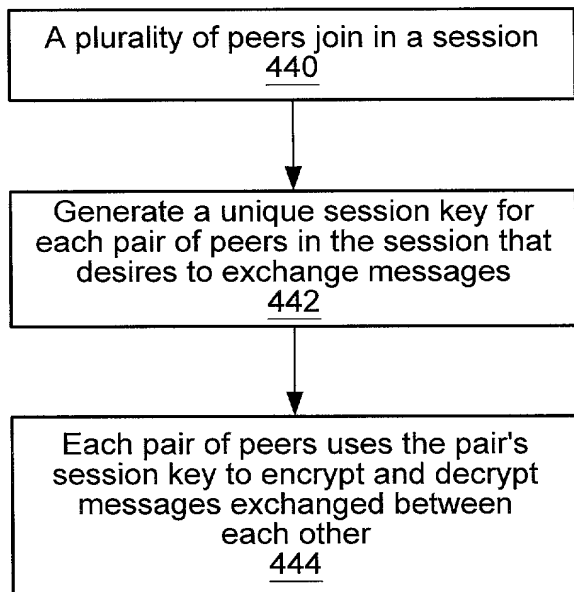


FIG. 8

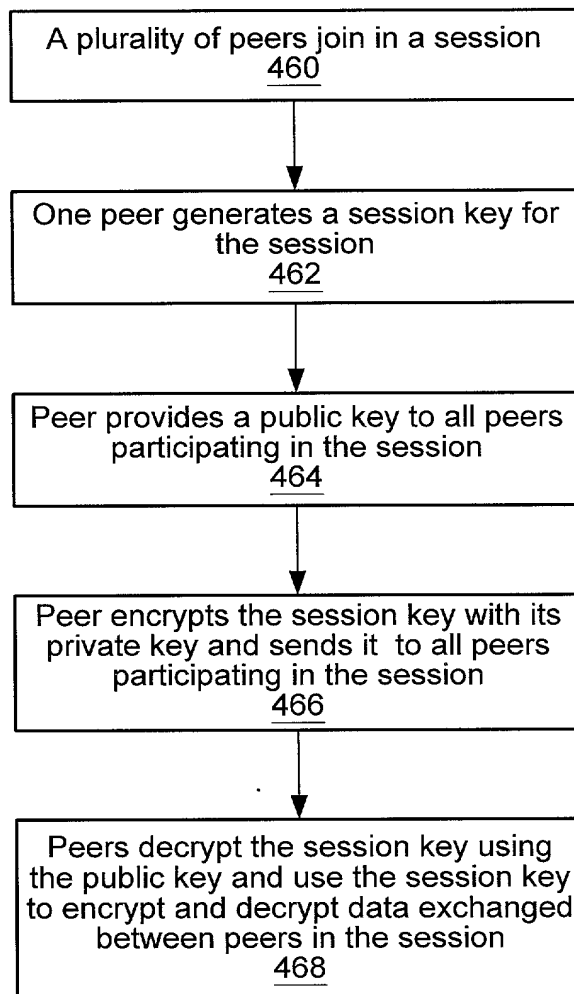


FIG. 9

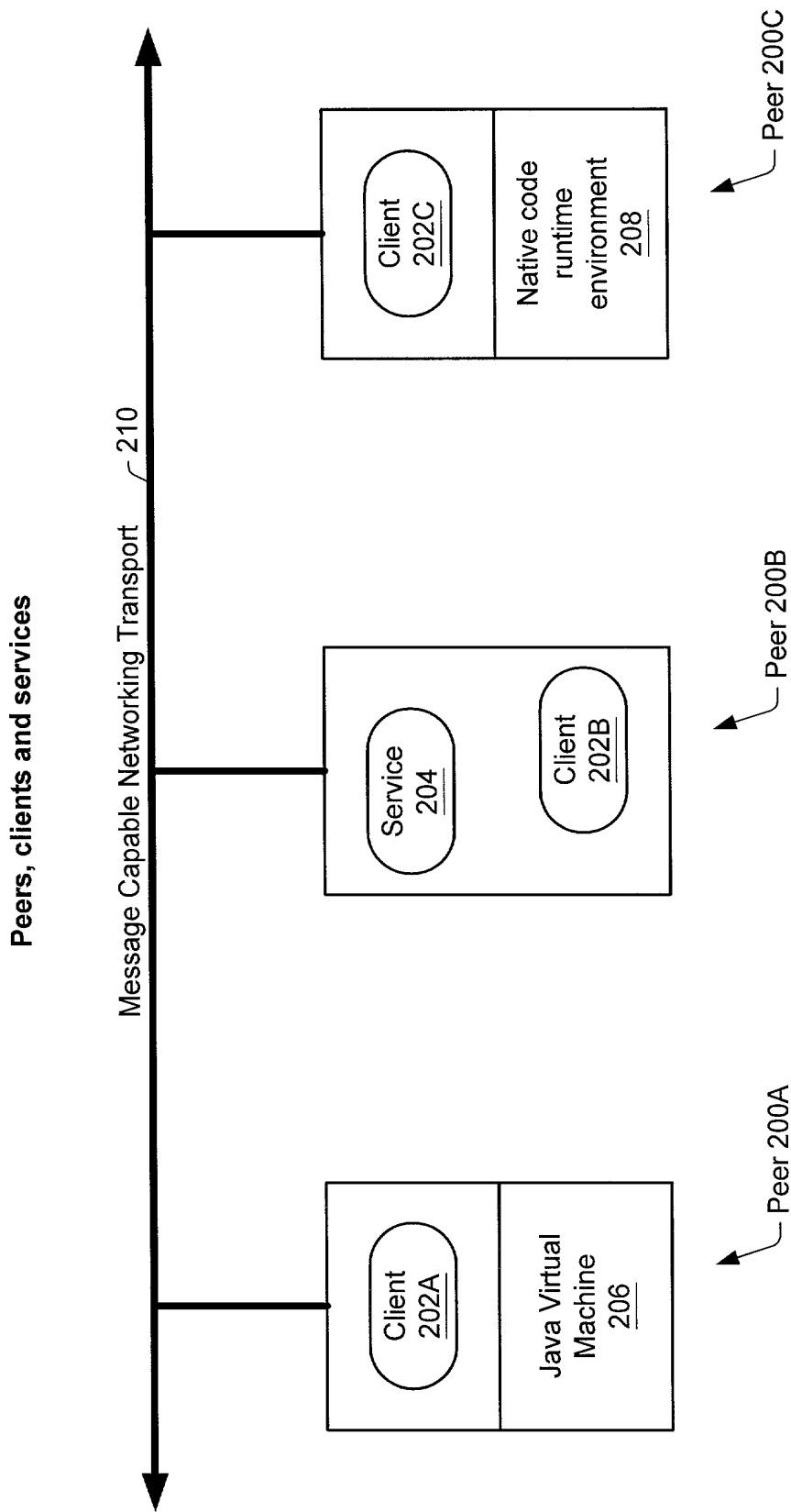
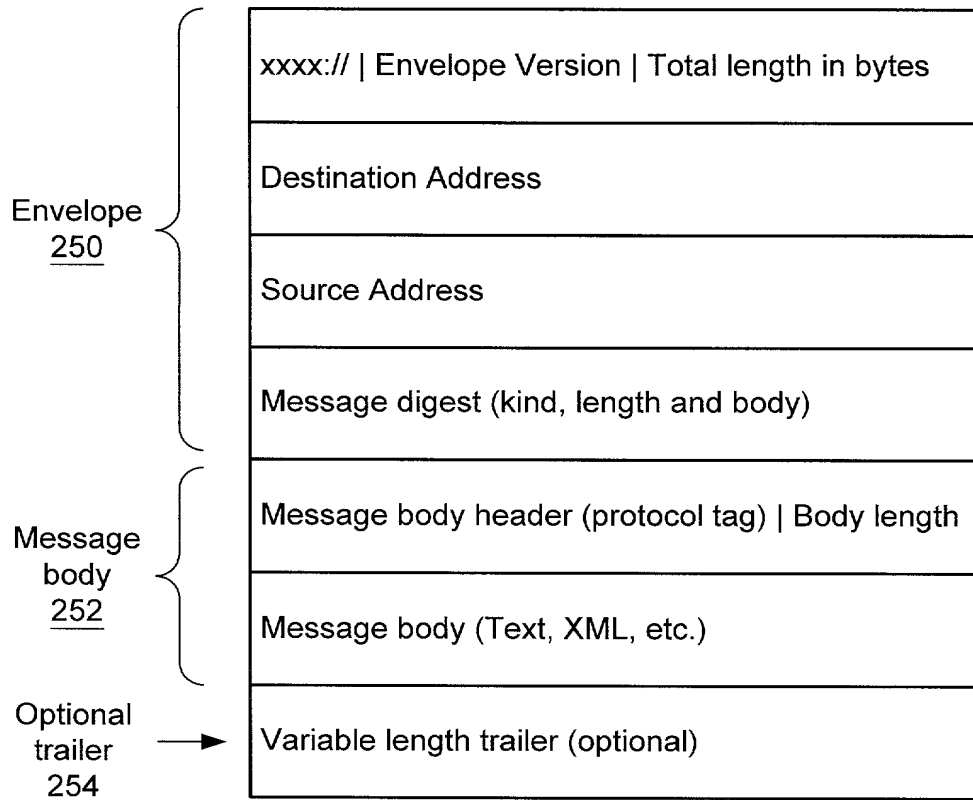


FIG. 10



**Peer-to-peer platform message**



**FIG. 11**

**Content ID**

128-bit UUID of Peer Group	Length of Remainder	Unique name within the group (A byte array)
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**FIG. 12**

## Peer-to-peer sharing layers

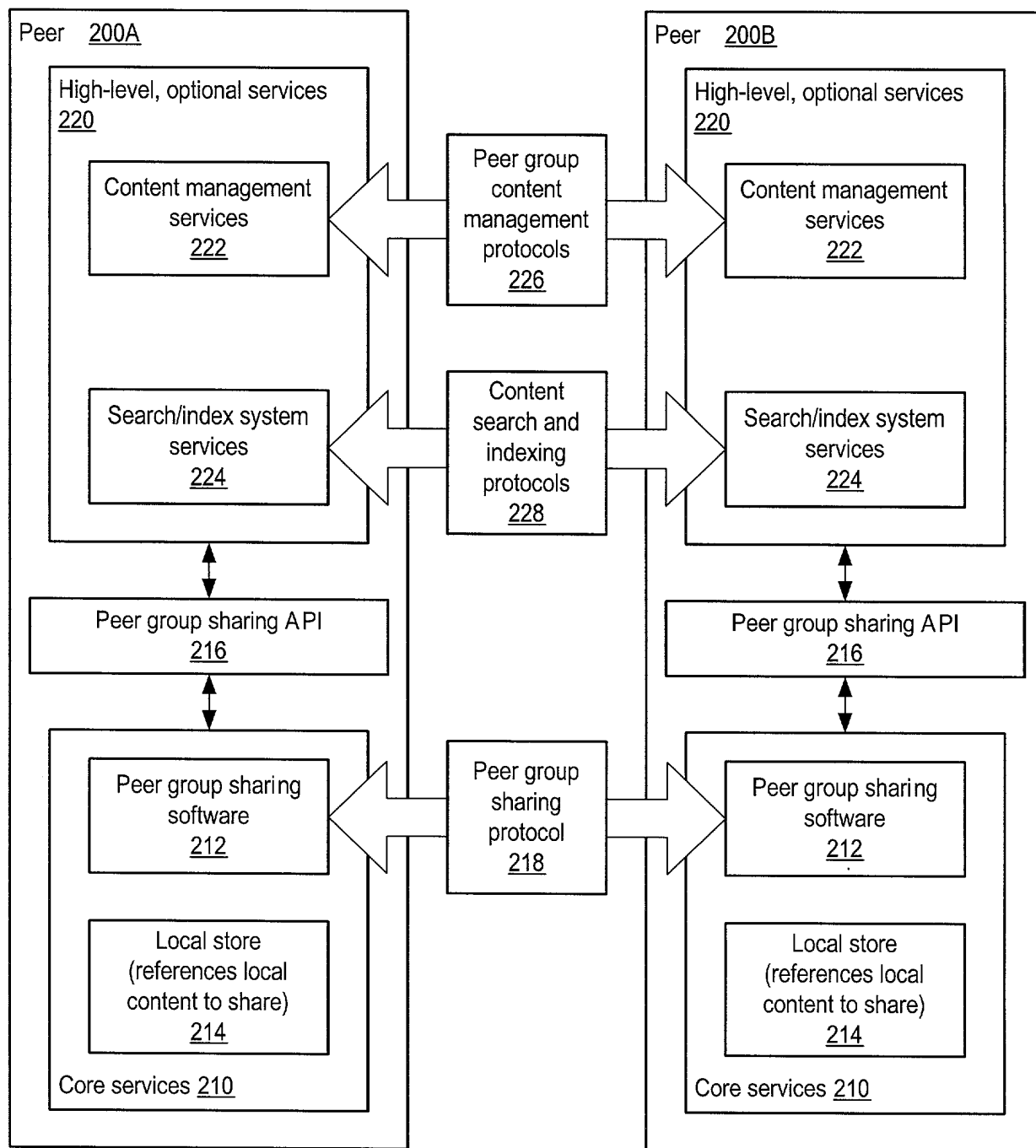


FIG. 13

**Policy Advertisement**

Element Name (A String)	Element Value Type
Policy Name	A non-canonical resource name (suitable for UI display)
Policy Keywords	String[]
Policy Resolver	<Peer Endpoint> to which the query generation and resolve messages are to be sent

*FIG. 14*

**Peer Advertisement**

Element Name (A String)	Element Value Type
Peer Endpoint	<Peer Endpoint[]>

*FIG. 15*

**Peer Group Advertisement**

Element Name (A String)	Element Value Type
Membership Application Policy	<Policy Advertisement>
New Member Approval Policy (Authentication)	<Policy Advertisement>
Content Sharing Policy	<Policy Advertisement>
Peer Discovery Policy	<Policy Advertisement>
Policy Resolver Policy	<Policy Advertisement>
Pipe Resolver Policy	<Policy Advertisement>

*FIG. 16*

**Pipe Advertisement**

Element Name (A String)	Element Value Type
Direction	<Pipe Direction> (In or Out)

*FIG. 17***Service Advertisement**

Element Name (A String)	Element Value Type
Access Policy	<Policy Advertisement>

*FIG. 18***Content Advertisement**

Element Name (A String)	Element Value Type
Type (Optional)	String
Size (Required)	Long
Encoding (Required)	<By Value> or <By Reference>
Content ID (Required)	<Content ID>
About ID (Optional)	<Content ID>
Peer ID (Optional)	<Peer Advertisement>

*FIG. 19*

Networking protocol stack

